

EXHIBIT 1

Alignment of SEQ ID NO:1 (10/609,150) and SEQ ID NO:5 (Schweighoffer)

Score = 404 bits (210), Expect = 4e-109
Identities = 612/813 (75%), Gaps = 0/813 [Note- alignment across the
entire Schweighoffer sequence gives an alignment of 612/865= 71%
homology]

SEQ5	52	CATAATATTACATTTCAGAGTTCACCTCCCACAGTTGAGTGGCATATAAGCAGACCTGGG 1	11
SEQ1	2242	CATAATATTACCTTTGAAAGTCCACCTCCACCAATTGAATGGCATATCAGCAAACCAGGA	2301
Query	112	CACATAGAGACTTTTGACCTGCTCACCTTACACCCAATAGAAATTGCTCGACAACTCACT	171
Sbjct	2302	CAGTTTGAACATTTGATCTCATGACACTTGATCCAATAGAAATTGCACGTCAGCTGACA	2361
Query	172	TTACTTGATTCAGATCTATACCGAGCTGTACAGCCATCAGATTTAGTTGGAAGTGTGTGG	231
Sbjct	2362	CTTTTGGAGTCTGATCTTTACAGGAAAGTTCAACCGTCTGAACTTGTAGGGAGTGTGTGG	2421
Query	232	ACAAAAGAAGACAAAGAAATTAACTCTCCTAATCTTCTGAAAATGATTCGACATACCACC	291
Sbjct	2422	ACCAAAGAAGATAAAGAAATTCTCCAAATTTATTAAAAATGATTCGCCATACCACA	2481
Query	292	AACCTCACTCTGTGGTTTGAGAAATGTATTGTAGAAACTGAAAATTTAGAAGAAAGA	351
Sbjct	2482	AATCTCACCCTCTGGTTTGAAAAATGCATTGTGGAAGCAGAAAATTTTGAAGAACGGGTG	2541
Query	352	GCTGTGGTGAGTCGAATTATTGAGATTCTACAAGTCTTTCAAGAGTTGAACAACTTTAAT	411
Sbjct	2542	GCAGTACTAAGTAGAATTATAGAAATTCTGCAAGTTTTTCAAGATTTGAATAATTTCAAT	2601
Query	412	GGGGTCCTTGAGGTTGTCAGTGCTATGAATTCCTCACCTGTTTACAGACTAGACCACACA	471
Sbjct	2602	ĠĠĊĠŤaŢŤĠĠĀĠAŤĀĠŤĊĀĠŤĠĊĀĠŤAĀĀŤŤĊĀĠŦĠŤĊĀĠŦĀĊĀĠĀĊŤĀĠĀĊĊĀŦĀĊĊ	2661
Query	472	TTTGAGCAAATACCAAGTCGCCAGAAGAAATTTTAGAAGAAGCTCATGAATTGAGTGAA	531
Sbjct	2662	TTTGAGGCACTGCAGGAAAGGAAAATTTTGGACGAAGCTGTGGAATTAAGTCAA	2721
Query	532	GATCACTATAAGAAATATTTGGCAAAACTCAGGTCTATTAATCCACCATGTGTGCCTTTC	591
Sbjct	2722	ĠĂŤĊĂĊŤŦŤĂĂĂĂĂĂŤĂĊĊŤAĠŦĂĂĂĂĊŤŦĂAĠŤĊAĂŤĊĂĂŤĊĊĂĊĊŦŦĠŤĠŤĠĊĊŦŦŦŦ	2781
Query	592	TTTGGAATTTATCTACATAATATCTTGAAAACAGAAGAAGGCAACCCTGAGGTCCTAAAA	651
Sbjct	2782	TTTGGAATATATTTAACAAATATTCTGAAGACCGAAGAAGGAATAATGATTTTTTAAAA	2841
Query	652	AGACATGGAAAAGAGCTTATAAACTTTAGCAAAAGGAGGAAAGTAGCAGAAATAACAGGA	711
Sbjct	2842	AĞAAAĞĞAAAAĞATTTAATCAATTTCAĞTAAĞAĞĞAAAĞTAĞCTĞAAATTACTĞĞA	2901
Query	712	GAGATCCAGCAGTACCAAAATCAGCCTTACTGTTTACGAGTAGAATCAGATATCAAAAGG	771
Sbjct	2902	GAAATTCAGCAGTATCAGAATCAGCCTTACTGTTTACGGATAGAACCAGATATGAGGAGA	2961
Query	772	TTCTTTGAAAACTTGAATCCGATGGGAAATAGCATGGAGAGGGAATTTACAGATTATCTT	831

Alignment of 10/609,150 SEQ ID NO:2 with SEQ ID NO:1:

Score = 48.8 bits (25), Expect = 2e-04
Identities = 25/25 (100%), Gaps = 0/25 (0%)
Strand=Plus/Minus

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Alignment of 10/609,150 SEQ ID NO:3 with SEQ ID NO:1:

Score = 48.8 bits (25), Expect = 2e-04
Identities = 25/25 (100%), Gaps = 0/25 (0%)
Strand=Plus/Minus